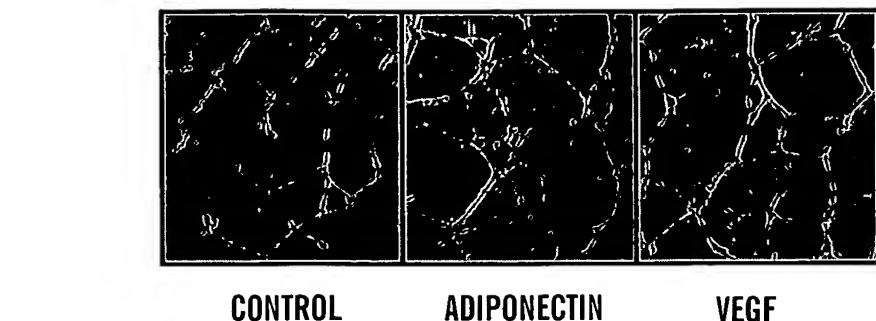
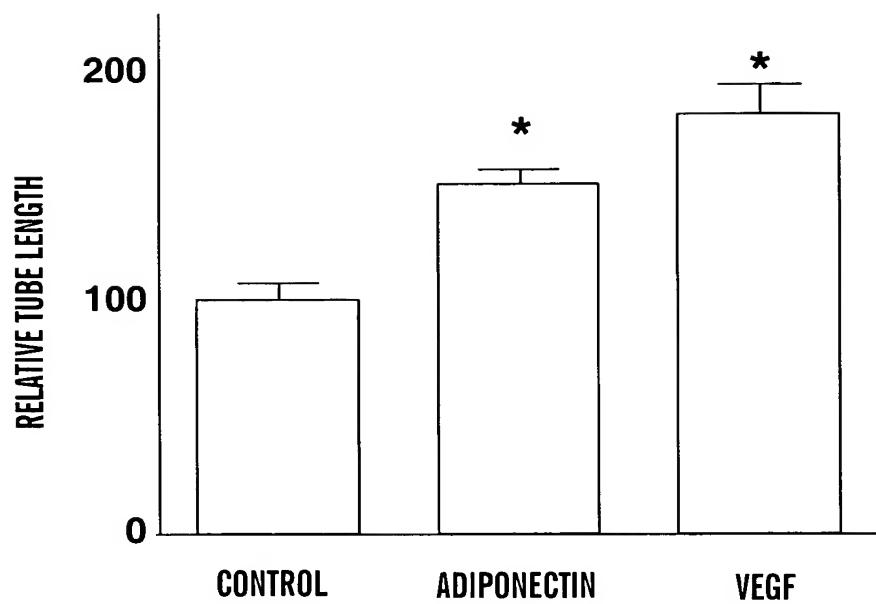


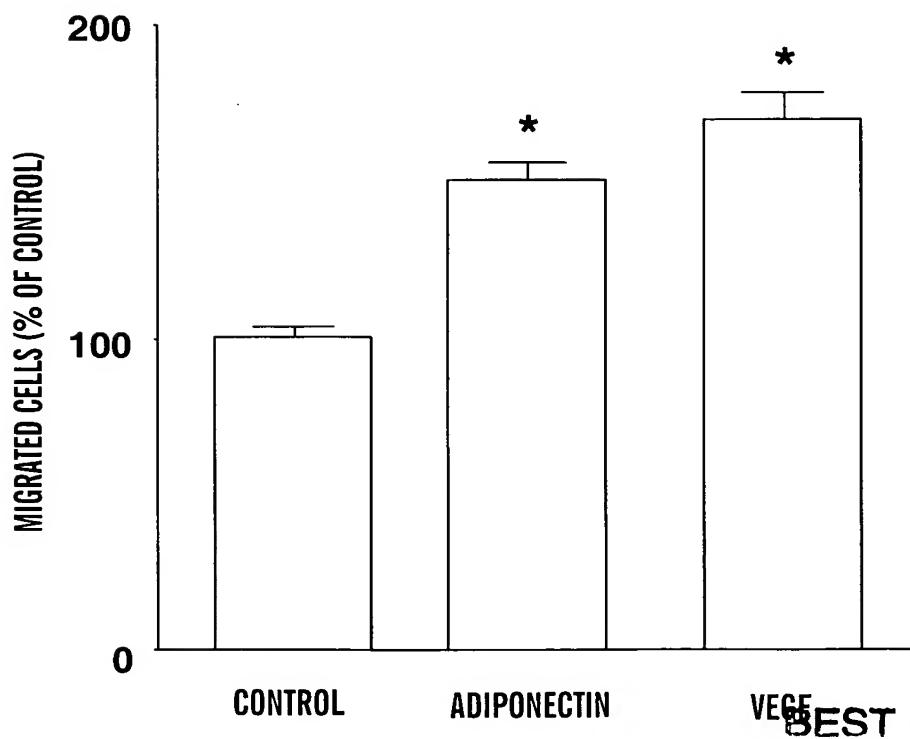
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**FIG. 1A**

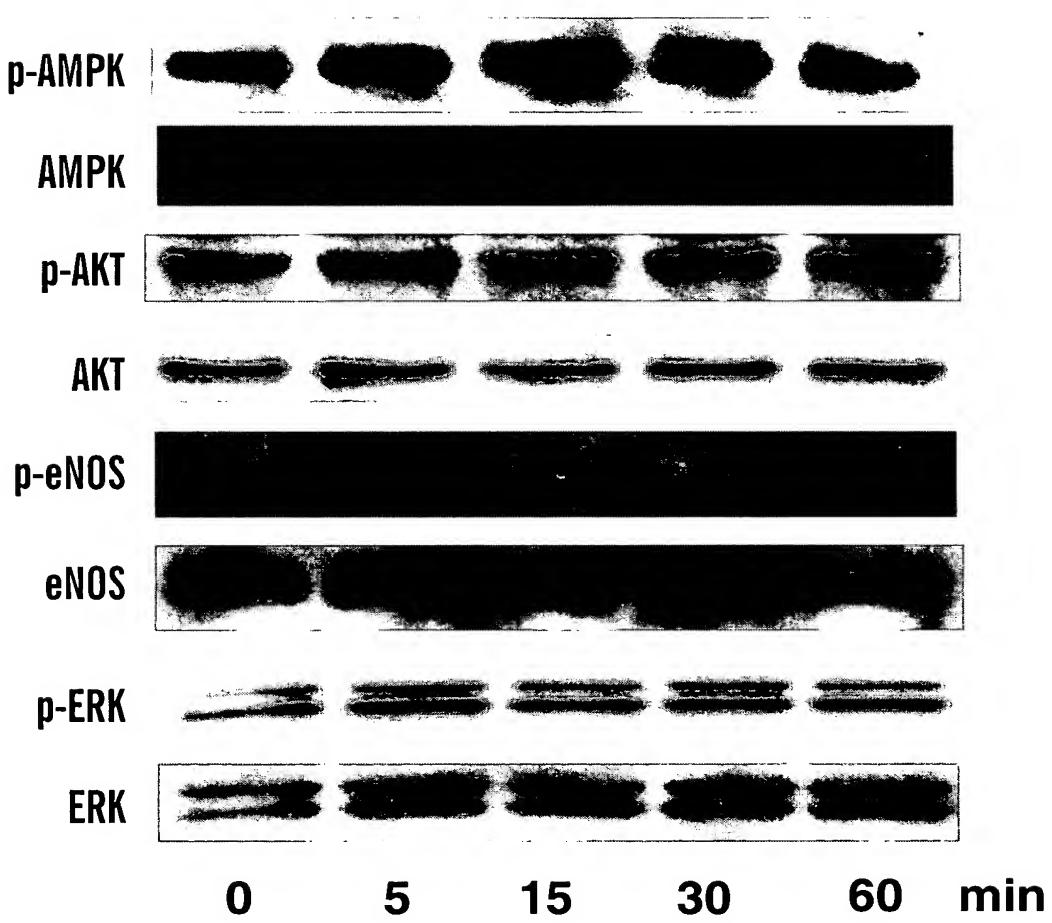


**FIG. 1B**



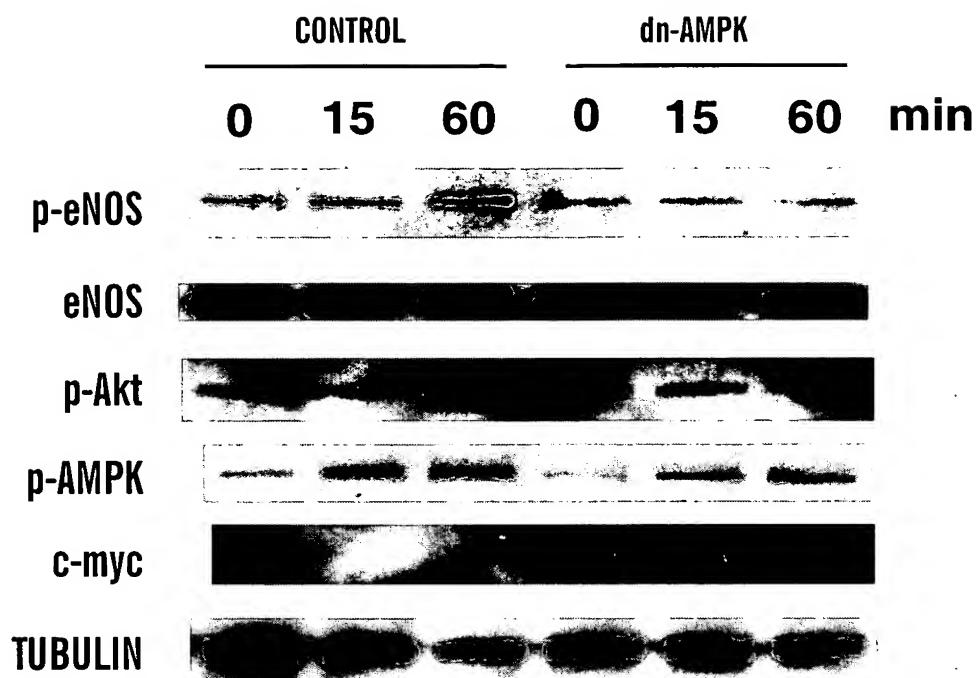
**FIG. 1C**

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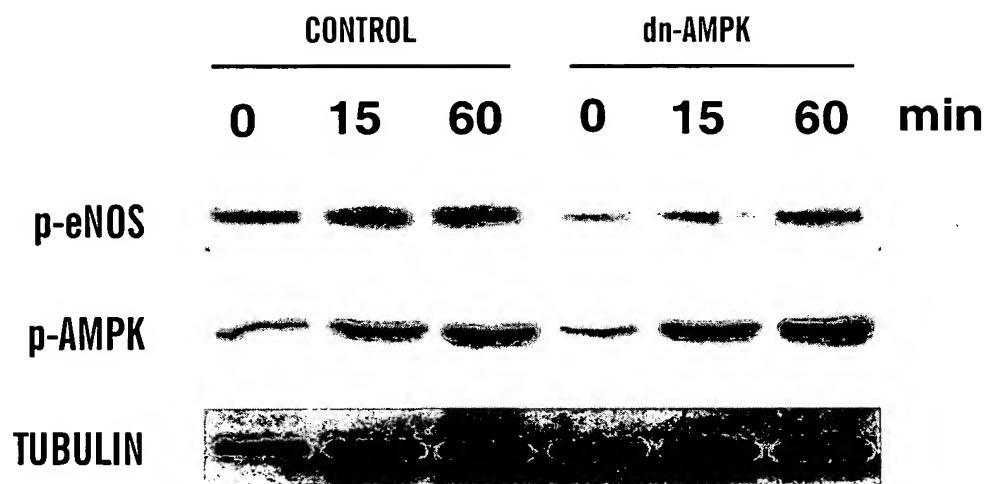


**FIG. 2A**

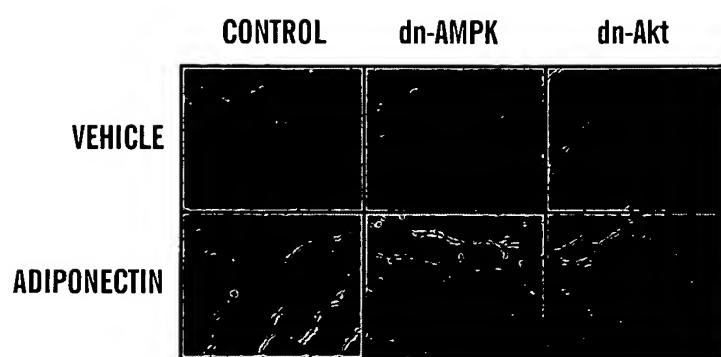
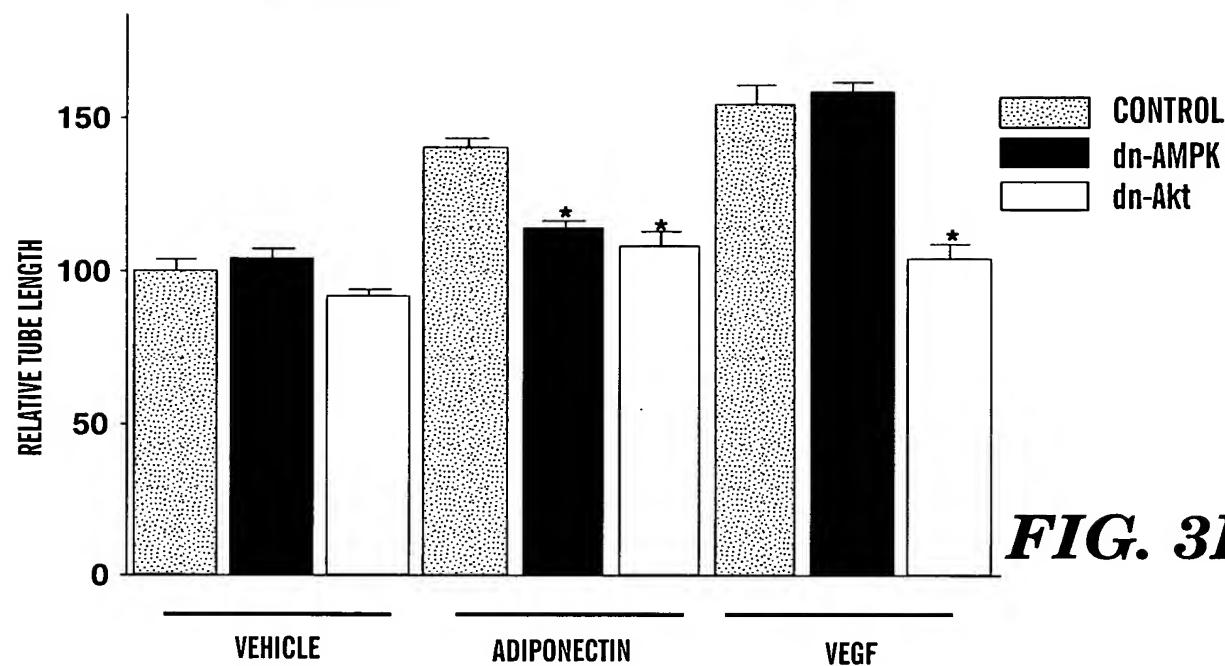
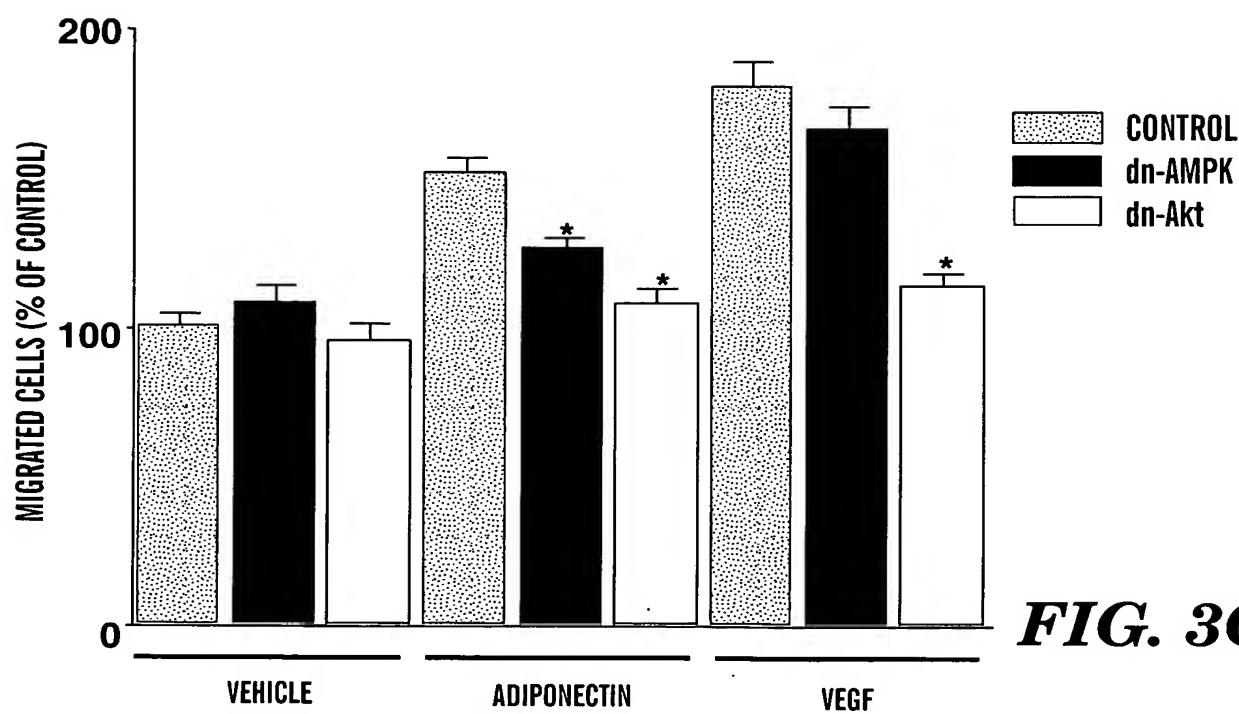
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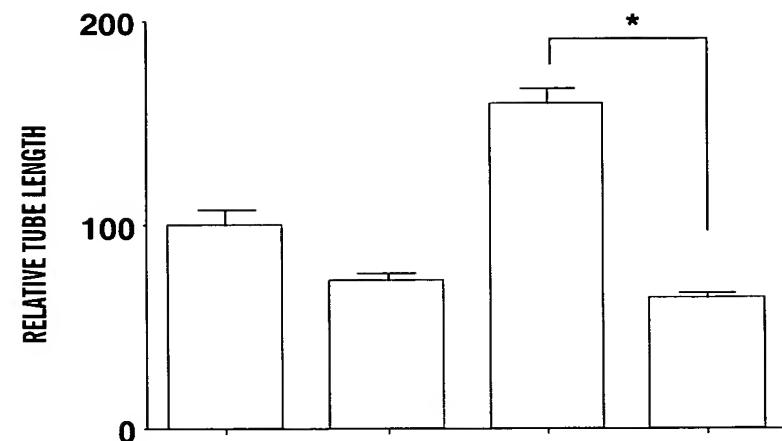


**FIG. 2B**

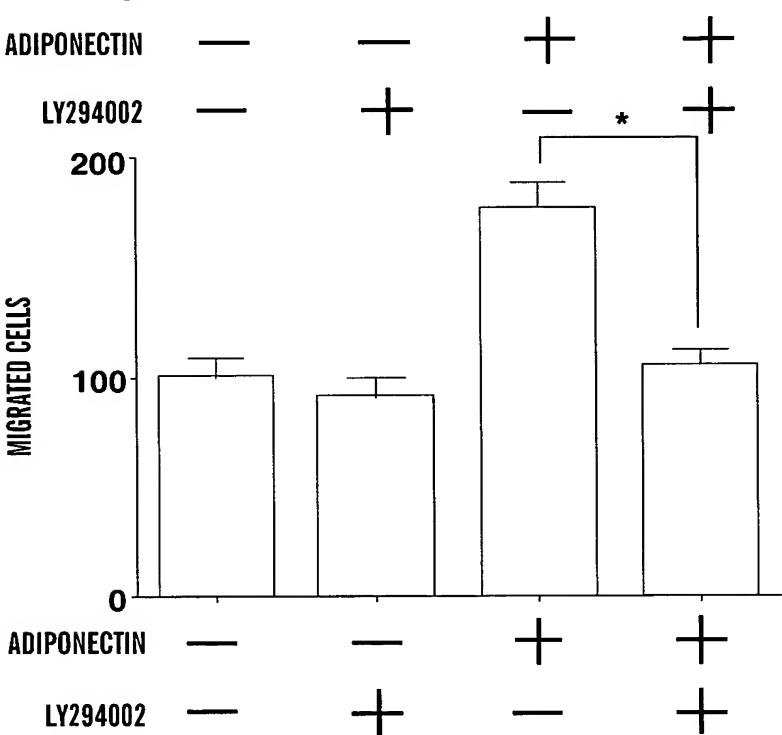


**FIG. 2C**

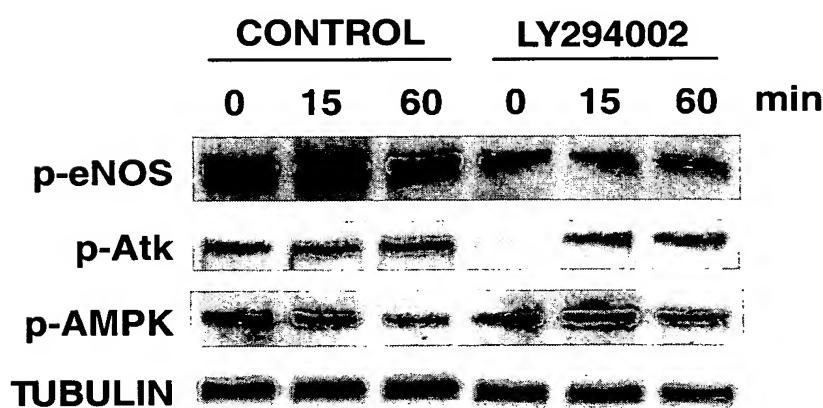
**FIG. 3A****FIG. 3B****FIG. 3C**



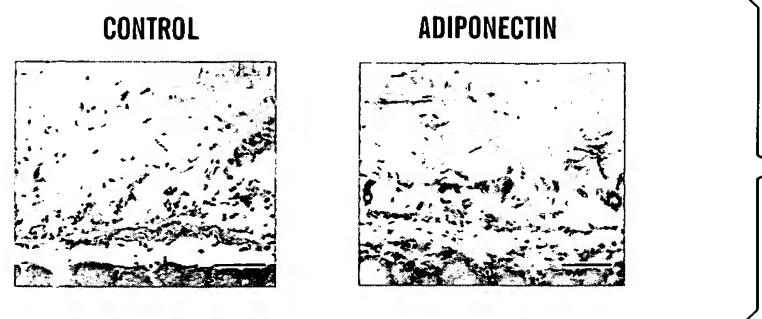
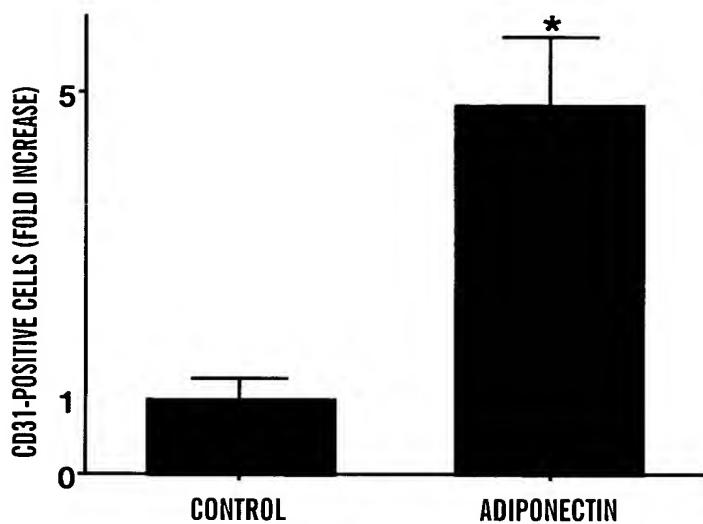
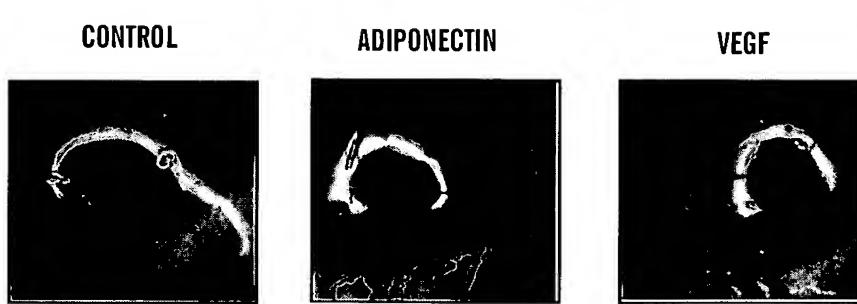
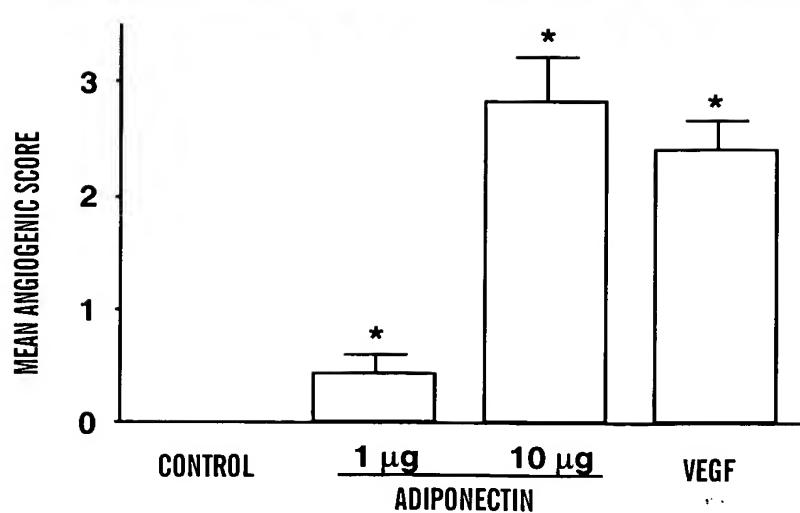
## **FIG. 4A**

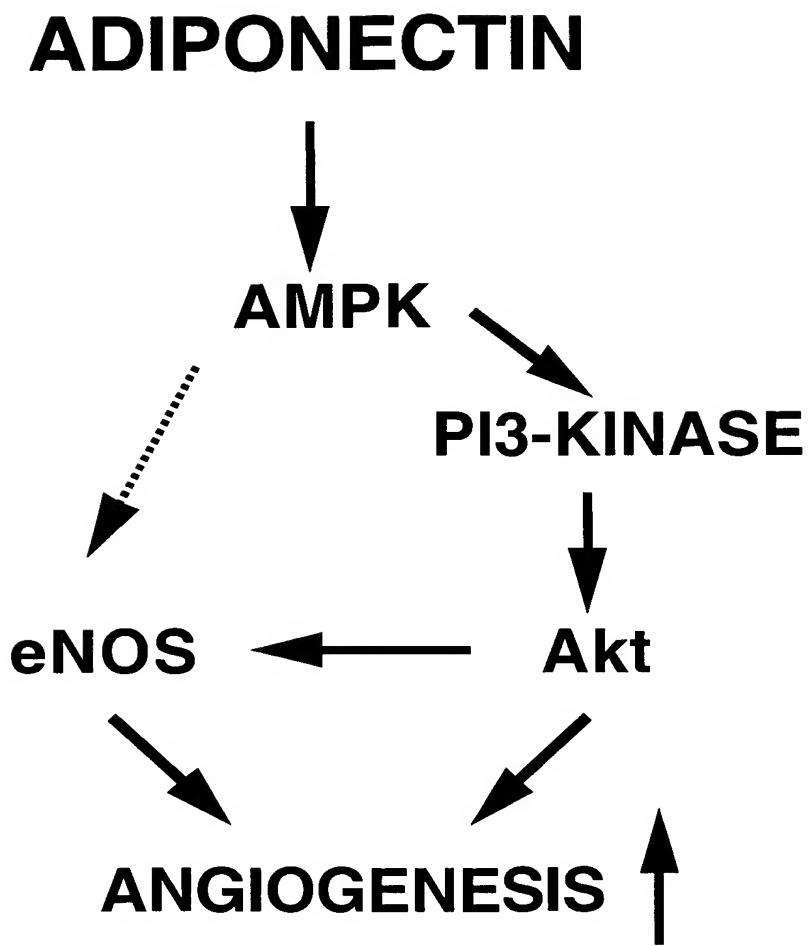


**FIG. 4B**



**FIG. 4C**

**FIG. 5A****FIG. 5B****FIG. 5C****FIG. 5D**



***FIG. 6***

**Figure 7.** Body weight, hemodynamic and echocardiographic measurements in WT and APN-KO mice at 7 days post-surgery.

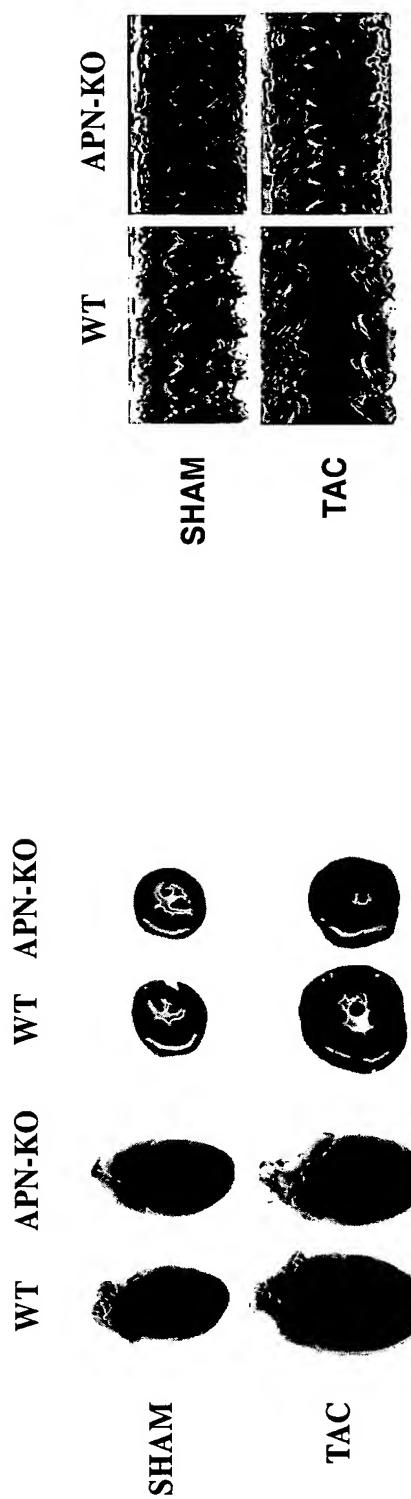
(n=5)	BW (g)	HR (bpm)	sBP (mmHg)	LVEDD (mm)	LVEDS (mm)	IVS (mm)	LVPW (mm)	FS (%)	LVPW/LVEDD (%)
WT-sham	25.2±2.1	537±83	111±8	2.84±0.16	1.22±0.13	0.74±0.05	0.76±0.05	56.8±2.94	0.27±0.03
WT-TAC	25.6±1.9	562±68	195±5 <sup>C</sup>	3.20±0.29 <sup>A</sup>	1.65±0.35 <sup>A</sup>	1.02±0.08 <sup>A</sup>	1.06±0.05 <sup>A</sup>	48.3±8.11 <sup>A</sup>	0.34±0.04 <sup>A</sup>
APN KO-sham	25.3±1.6	551±43	116±3	2.92±0.08	1.26±0.15	0.72±0.08	0.74±0.05	56.9±7.43	0.25±0.02
APN KO-TAC	26.3±1.4	562±61	196±20 <sup>C</sup>	1.80±0.23 <sup>B</sup>	0.62±0.13 <sup>B</sup>	1.38±0.16 <sup>B</sup>	1.42±0.11 <sup>B</sup>	65.2±3.29 <sup>B</sup>	0.79±0.09 <sup>B</sup>

<sup>A</sup>P<0.05 vs. WT-sham, <sup>B</sup>P<0.05 vs. WT-TAC, <sup>C</sup>P<0.01 vs. WT-sham

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**FIG. 7**

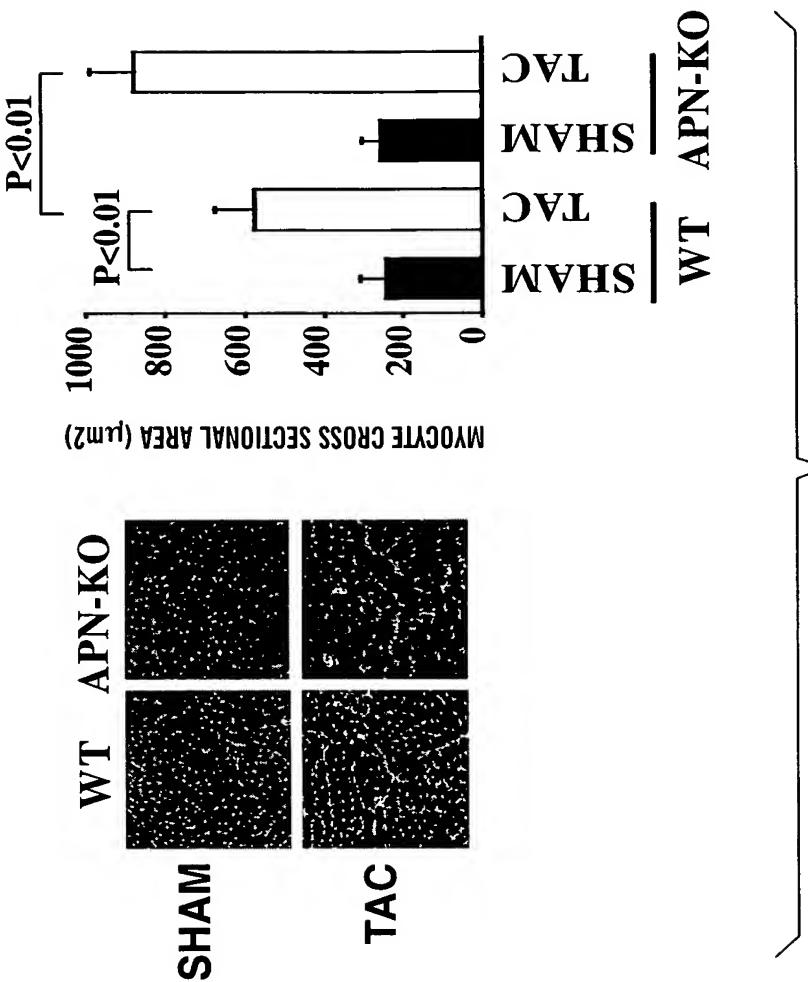
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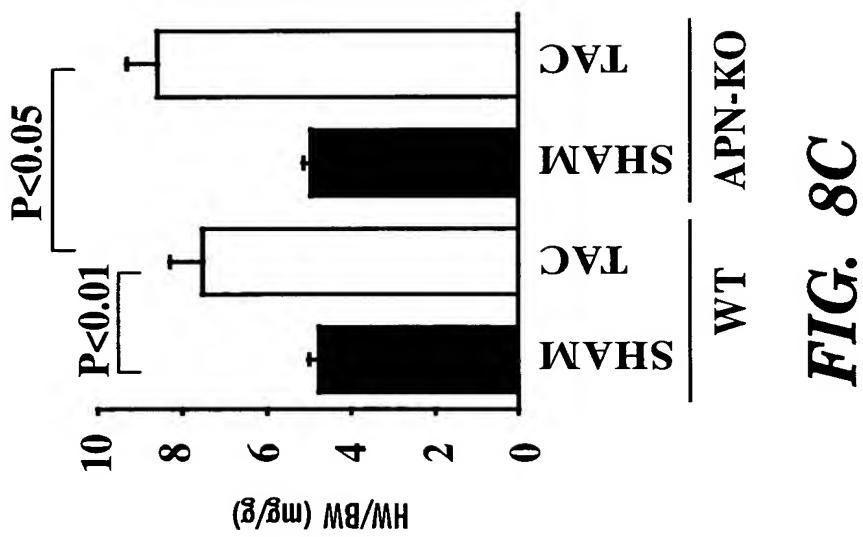
*FIG. 8A*

*FIG. 8B*

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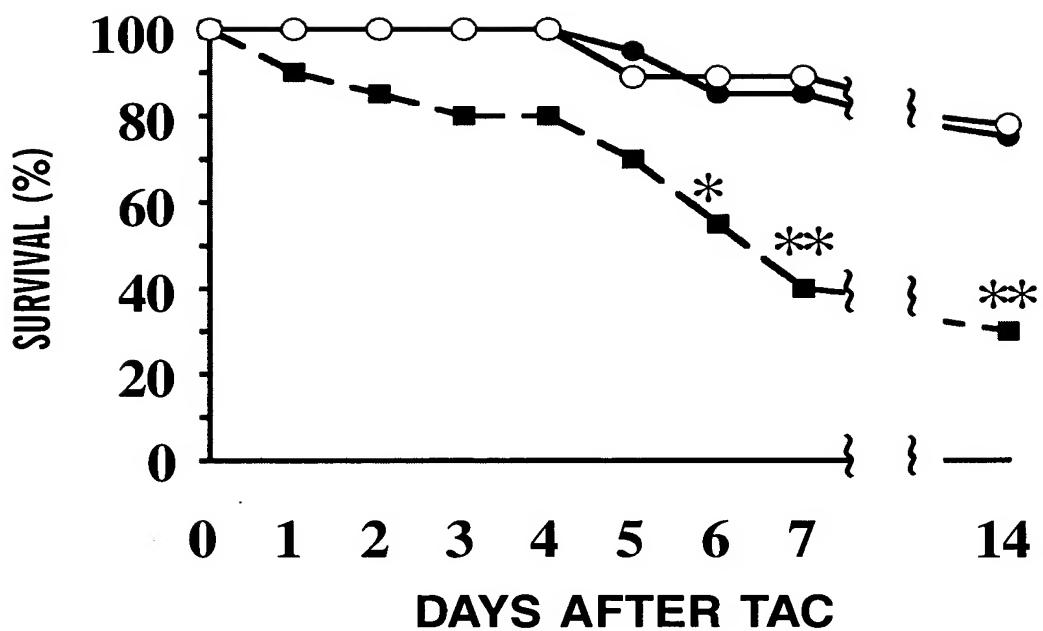


*FIG. 8D*

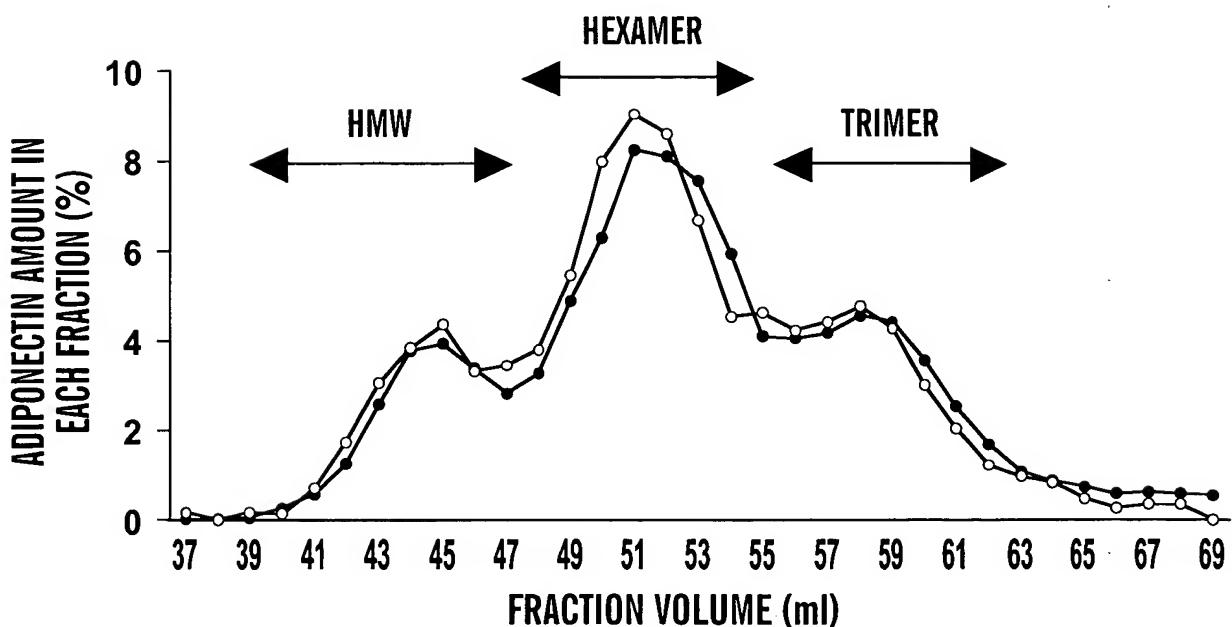


*FIG. 8C*

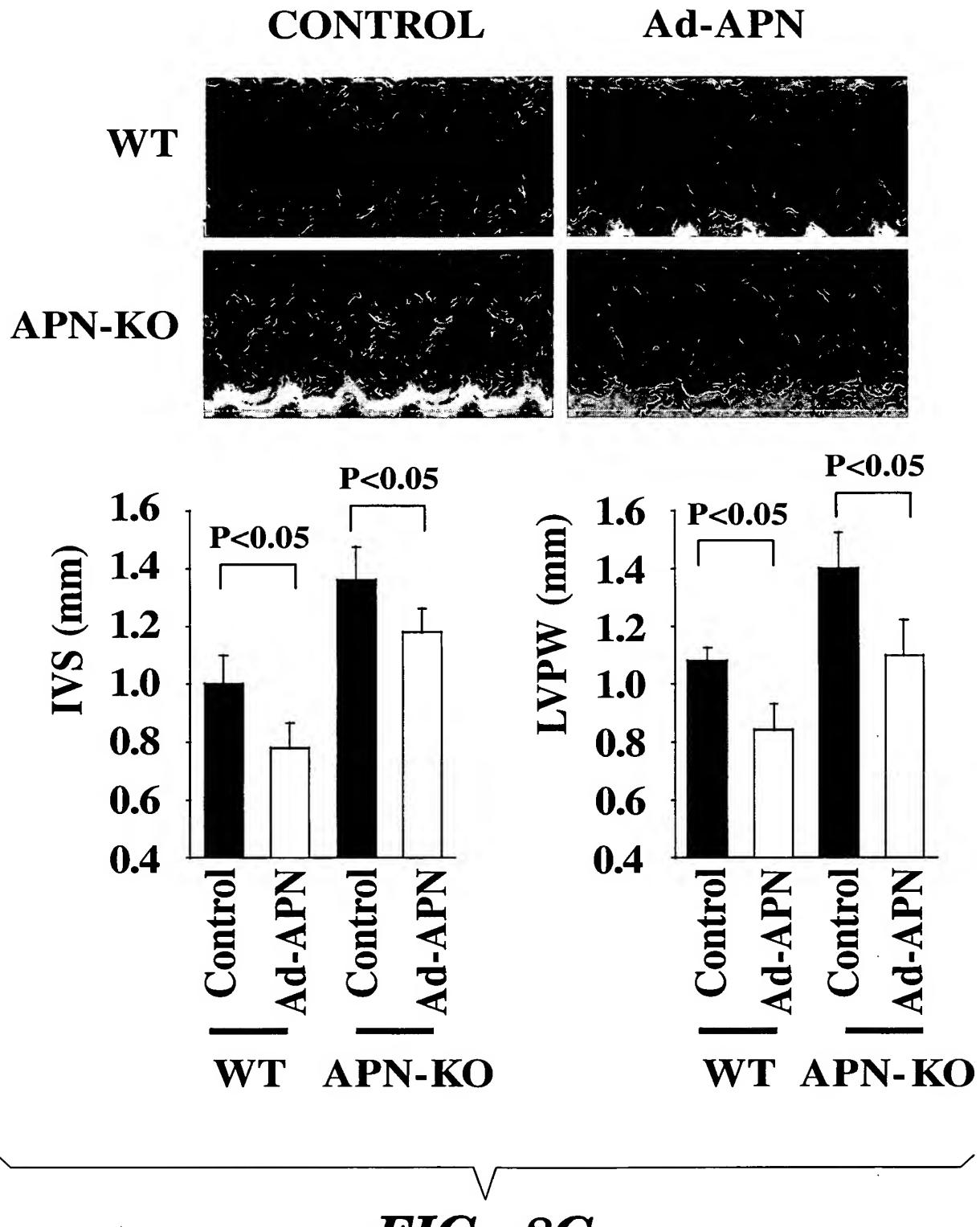
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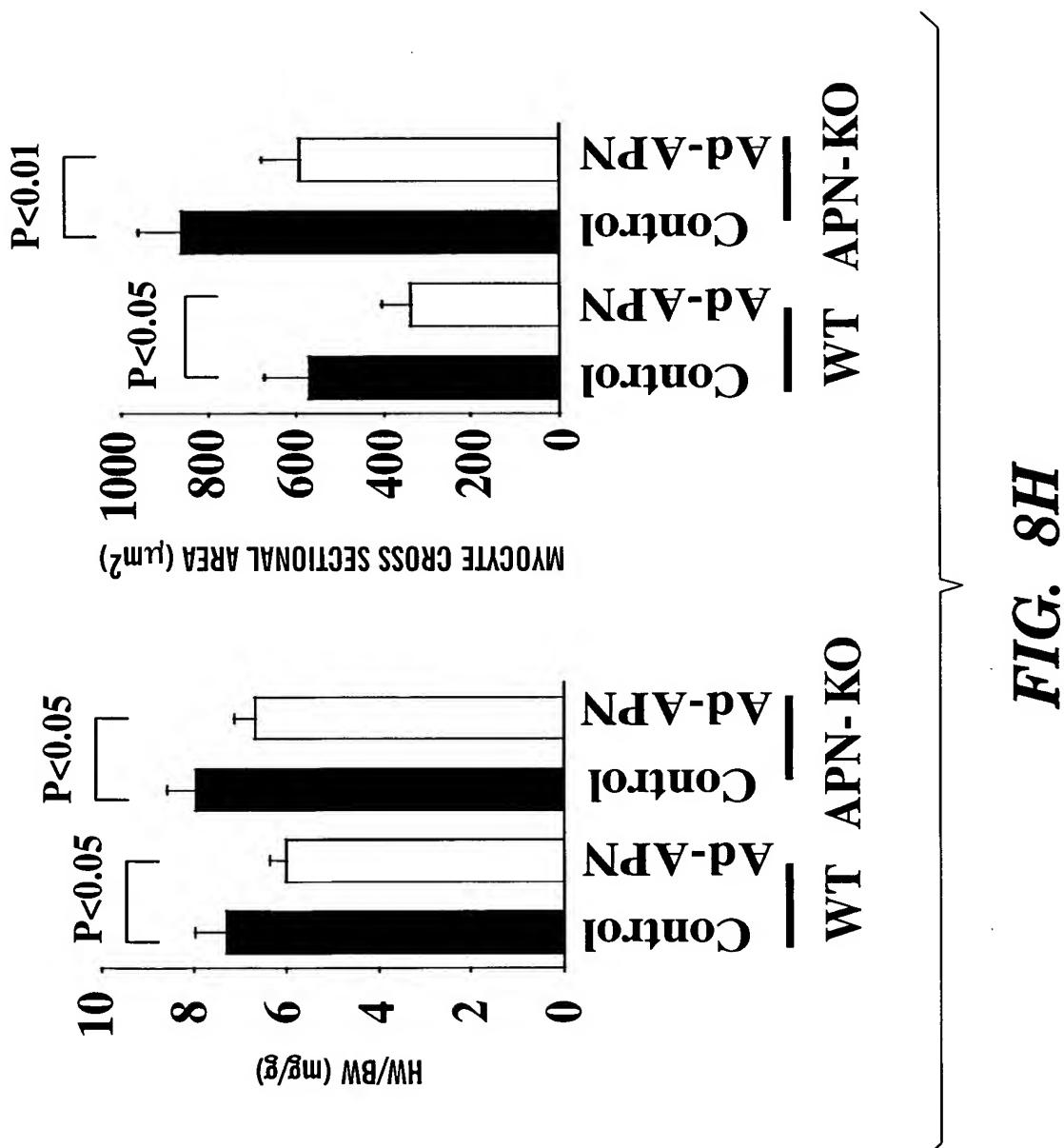


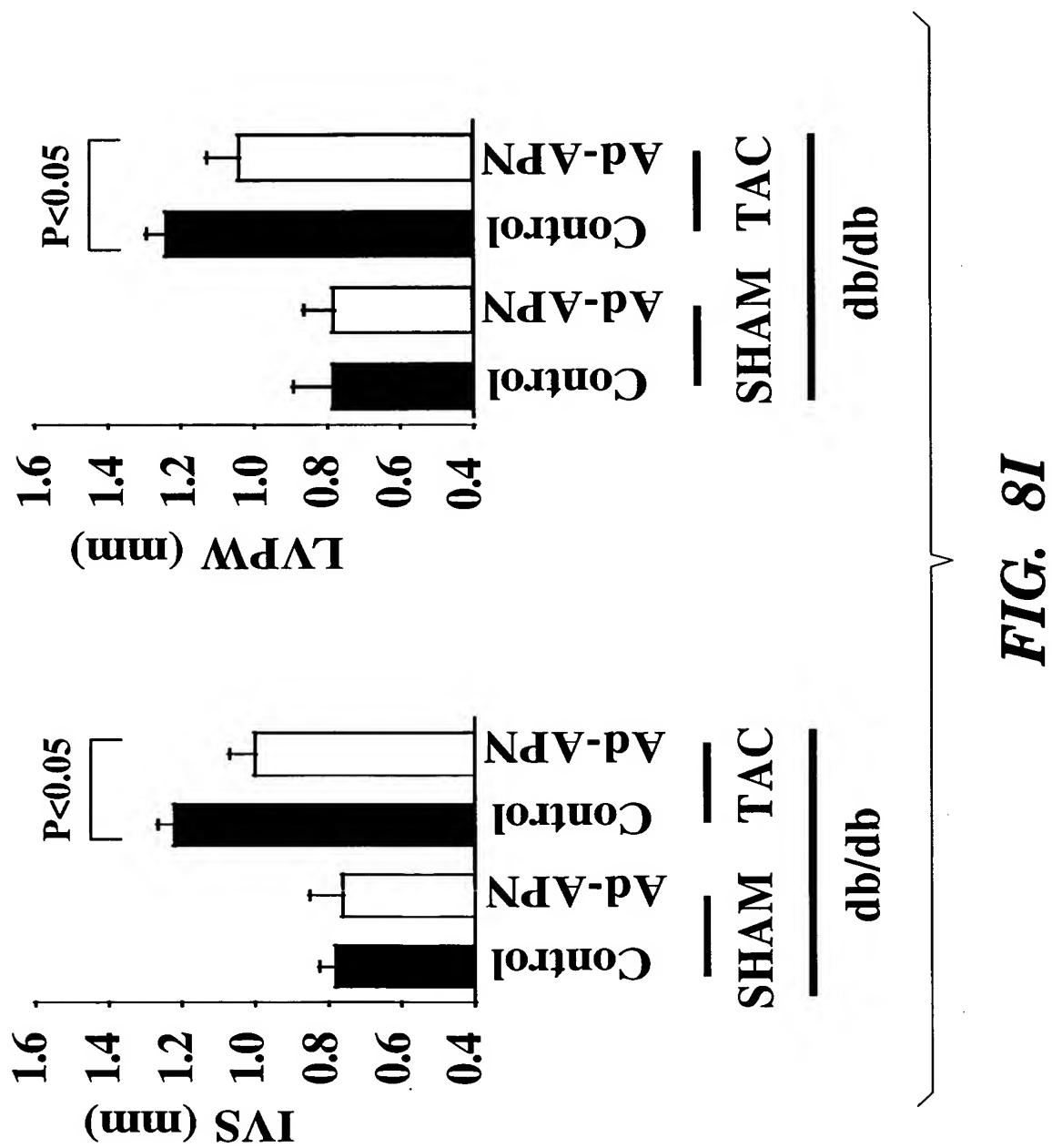
**FIG. 8E**

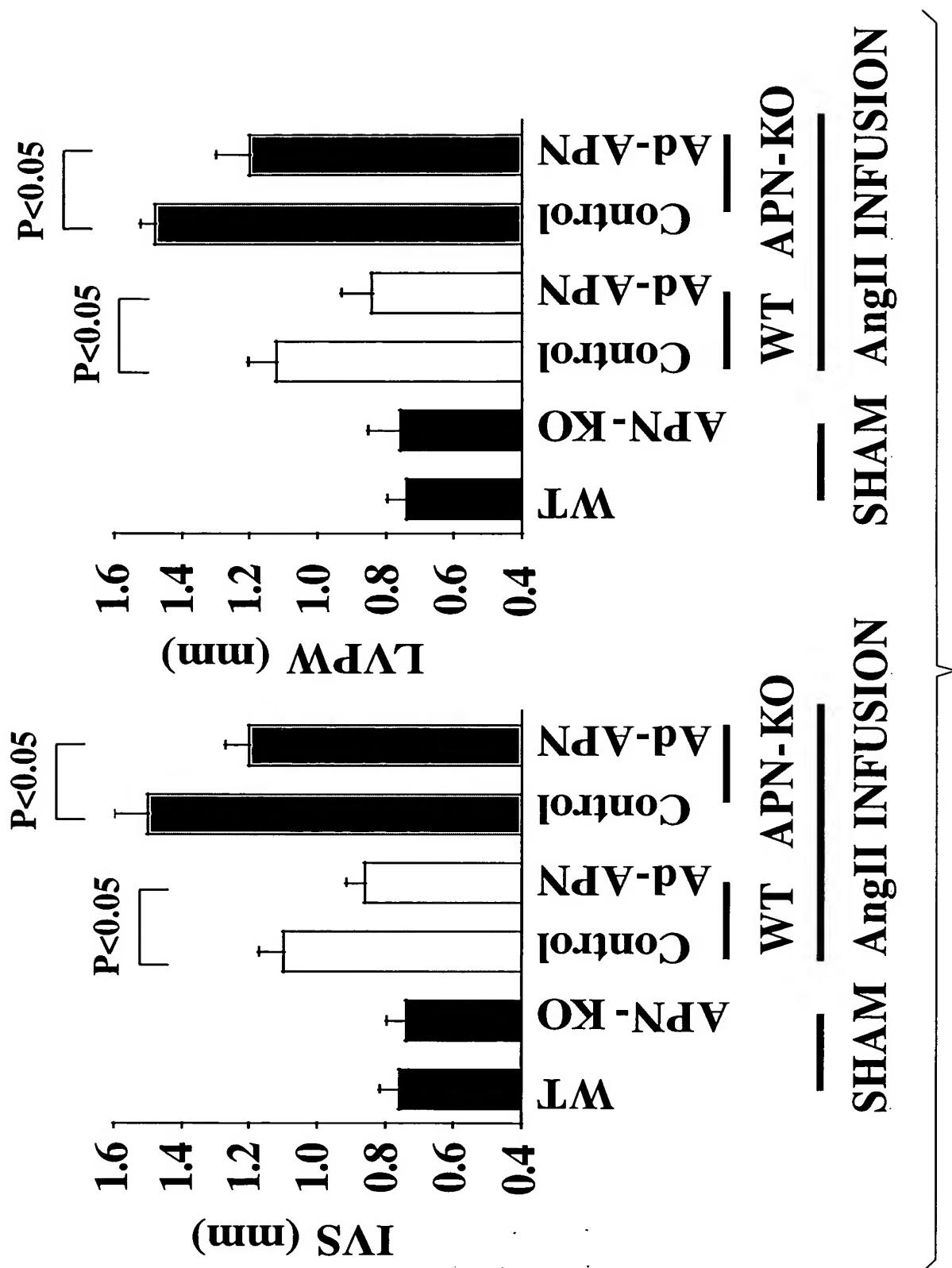


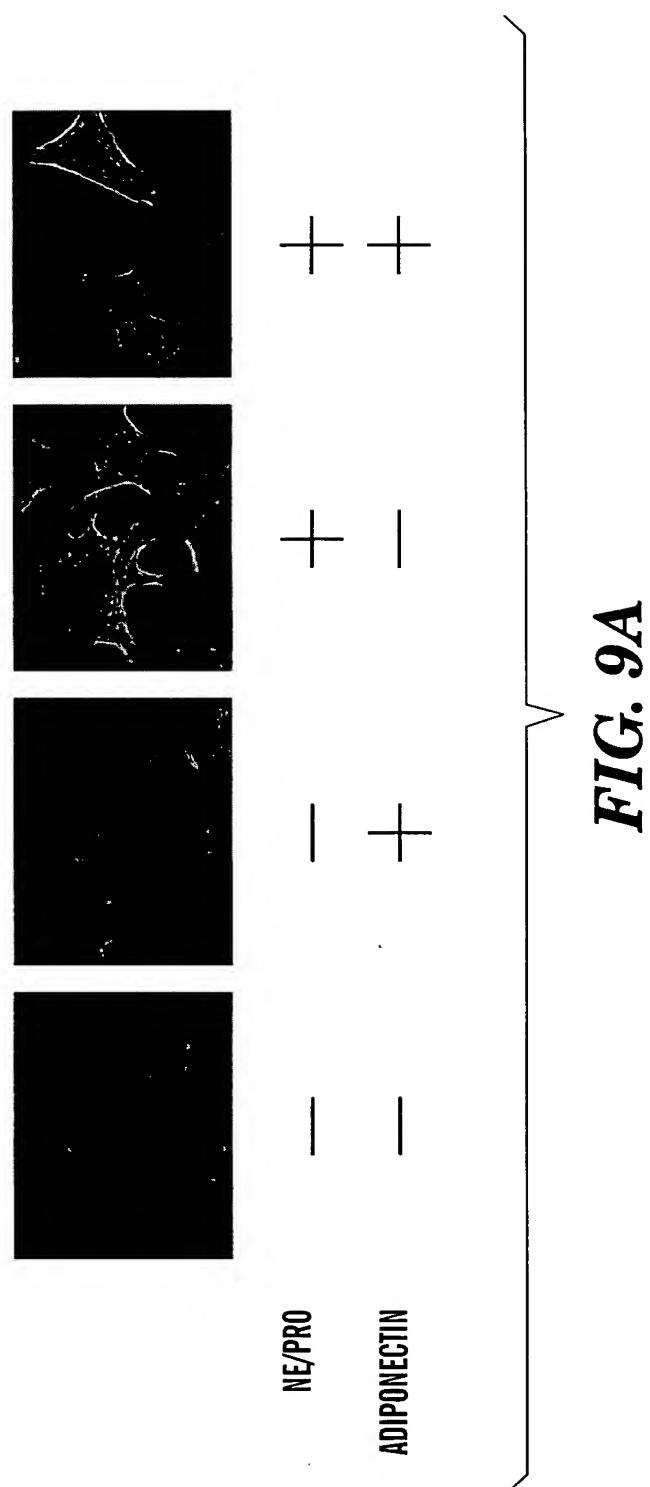
**FIG. 8F**

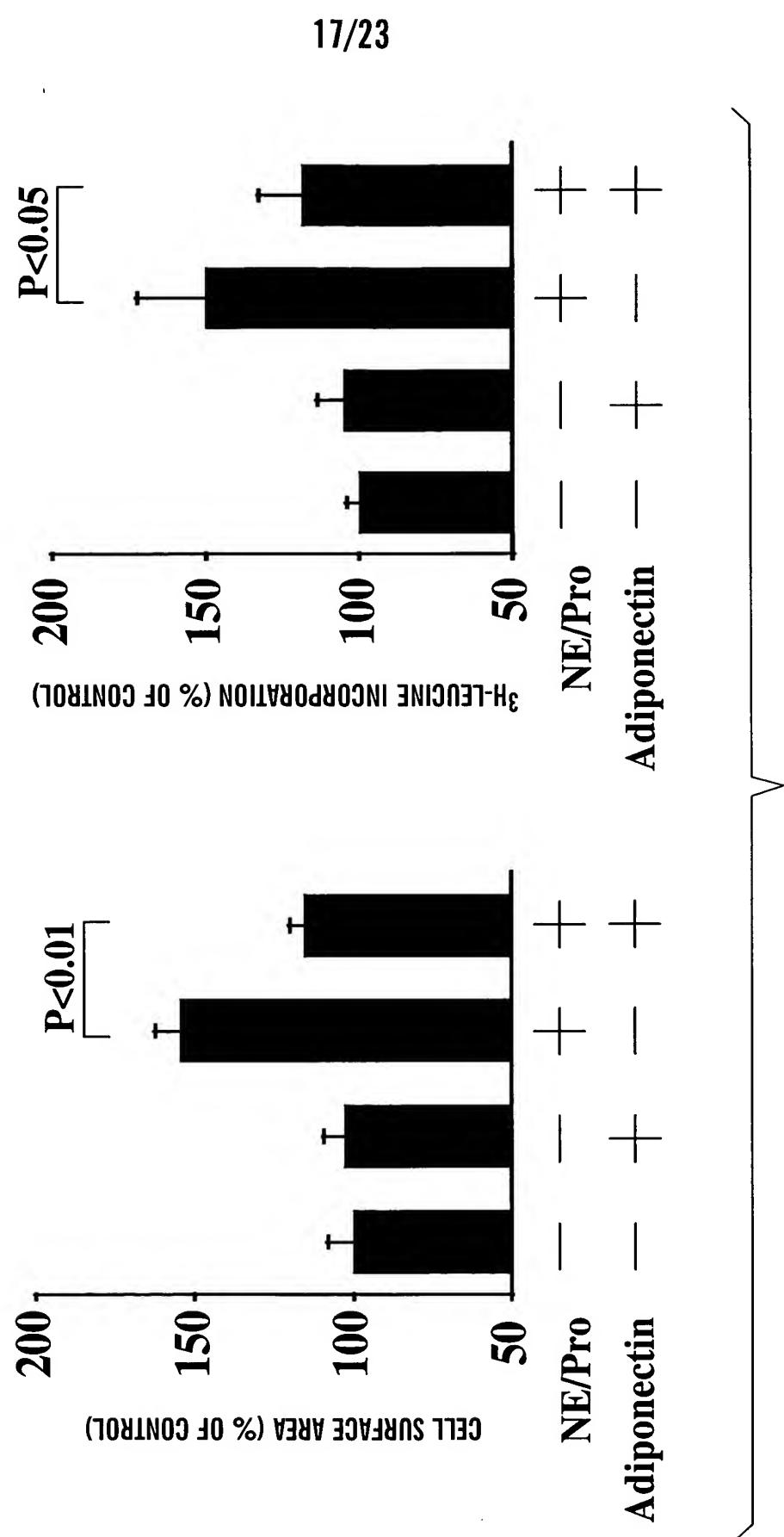




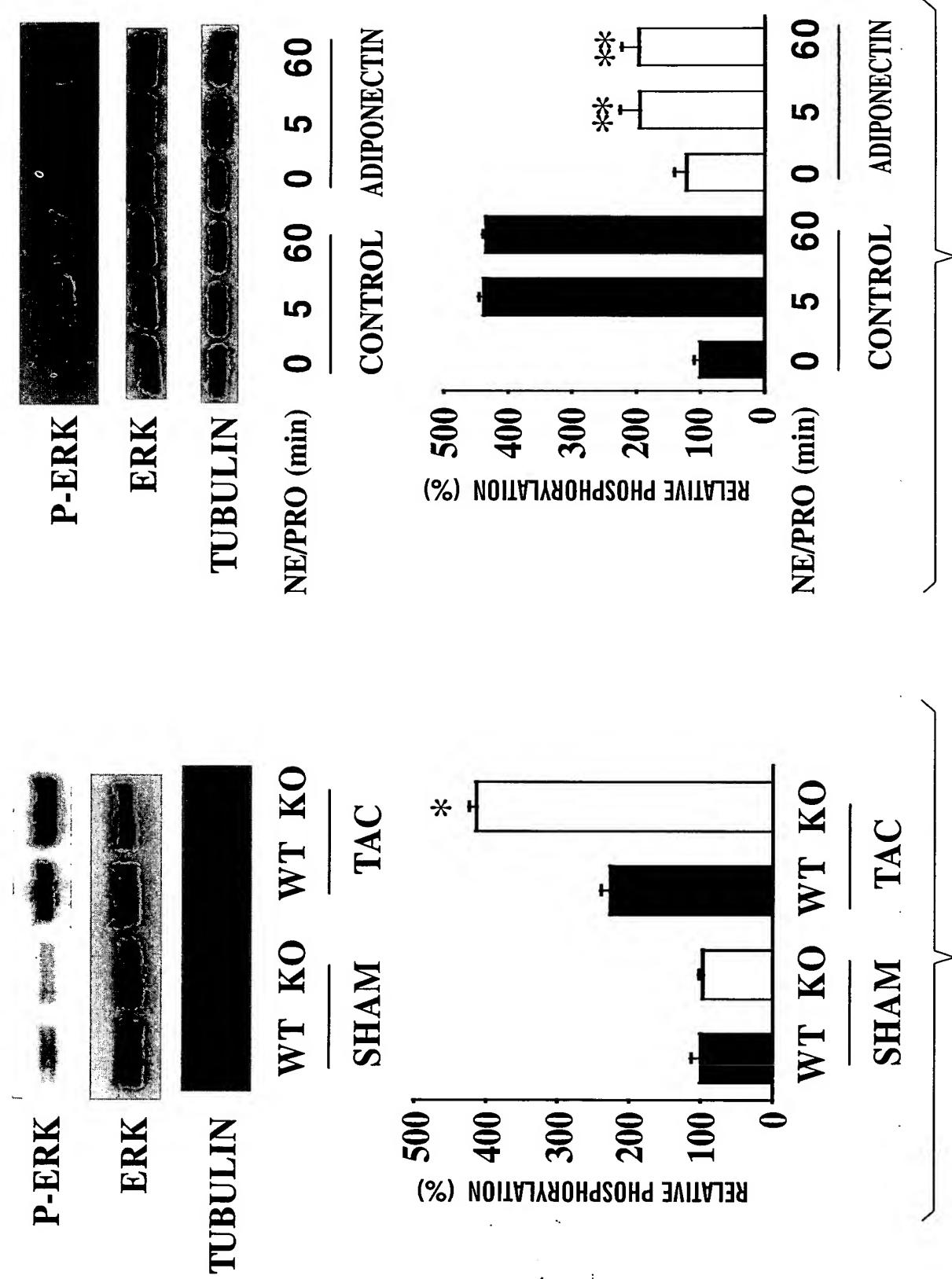




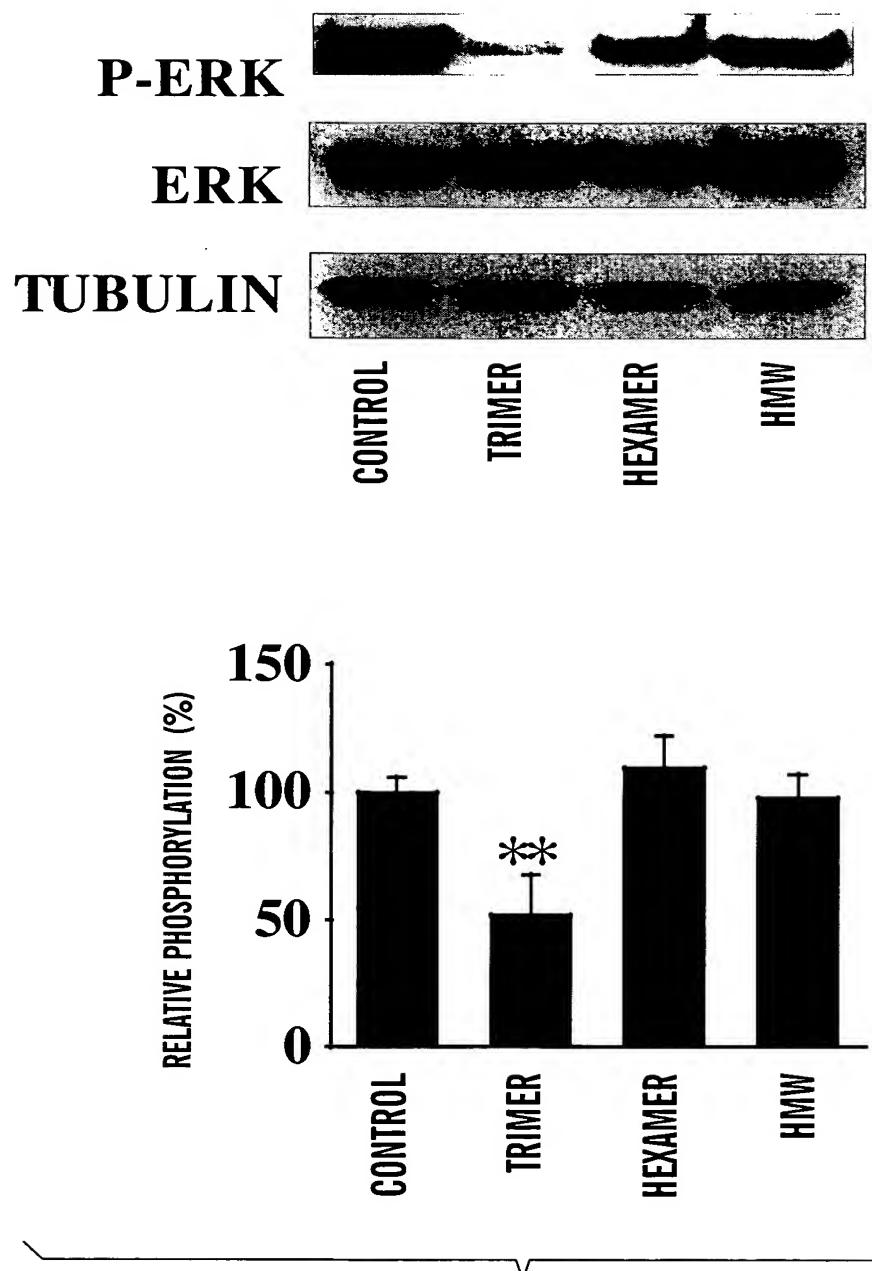




**FIG. 9B**

**FIG. 9C****FIG. 9D**

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**FIG. 9E**

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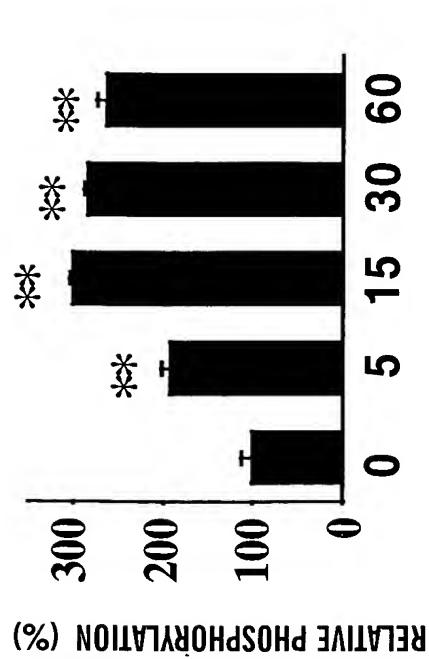
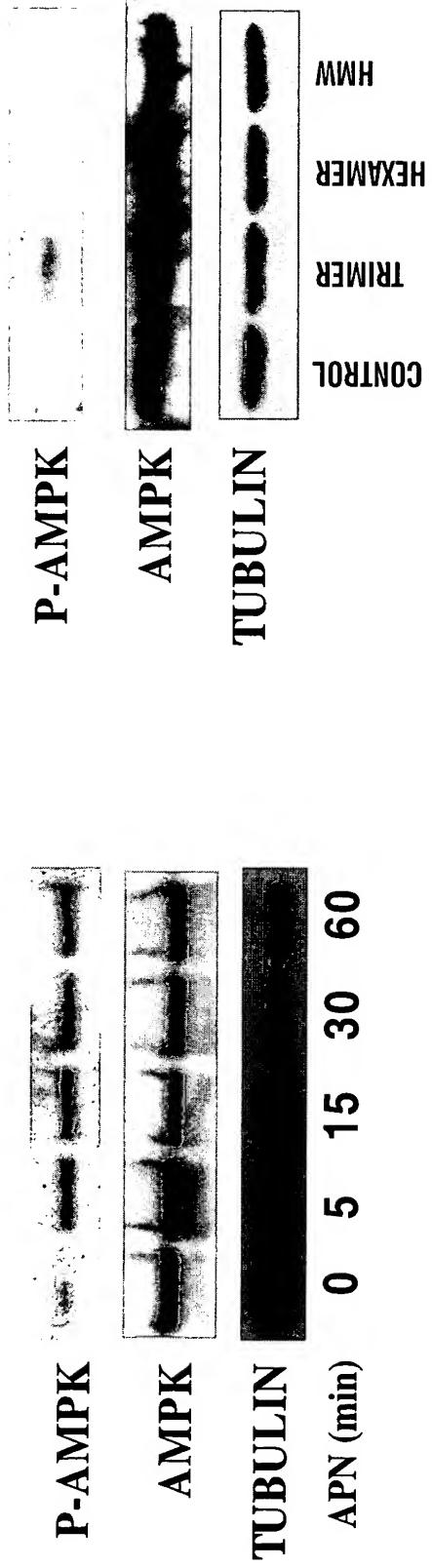


FIG. 10A

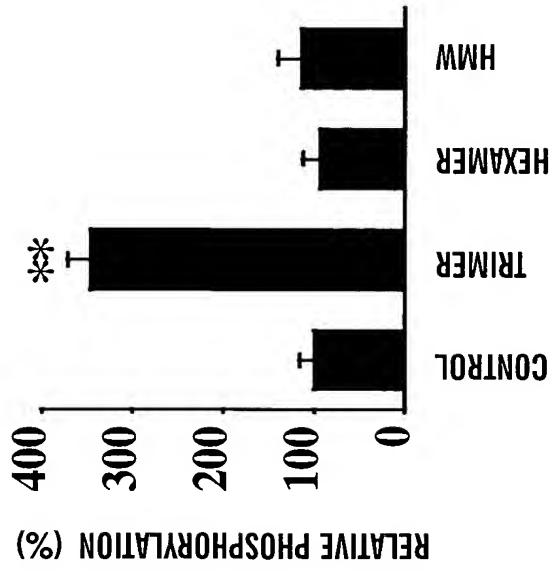
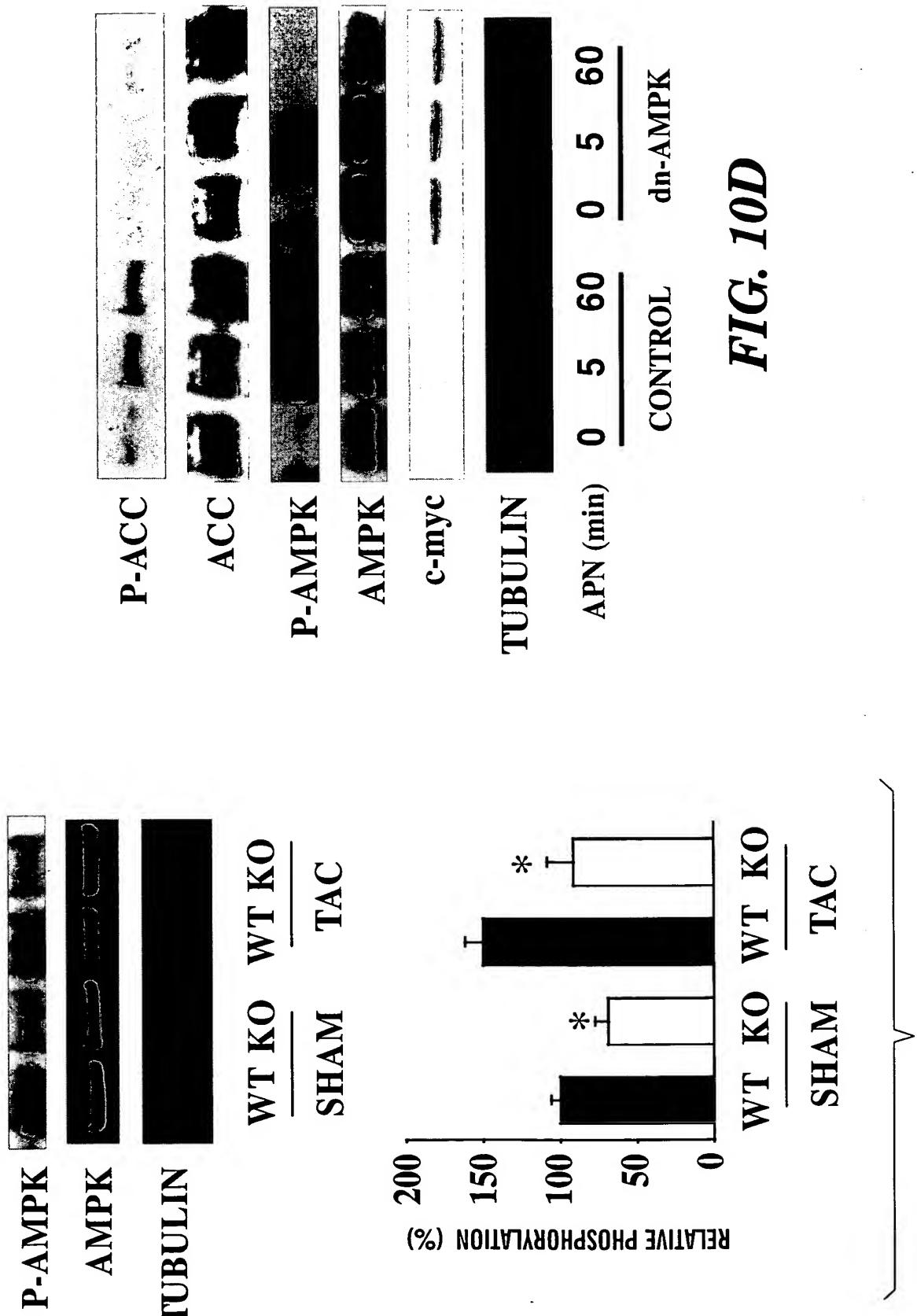
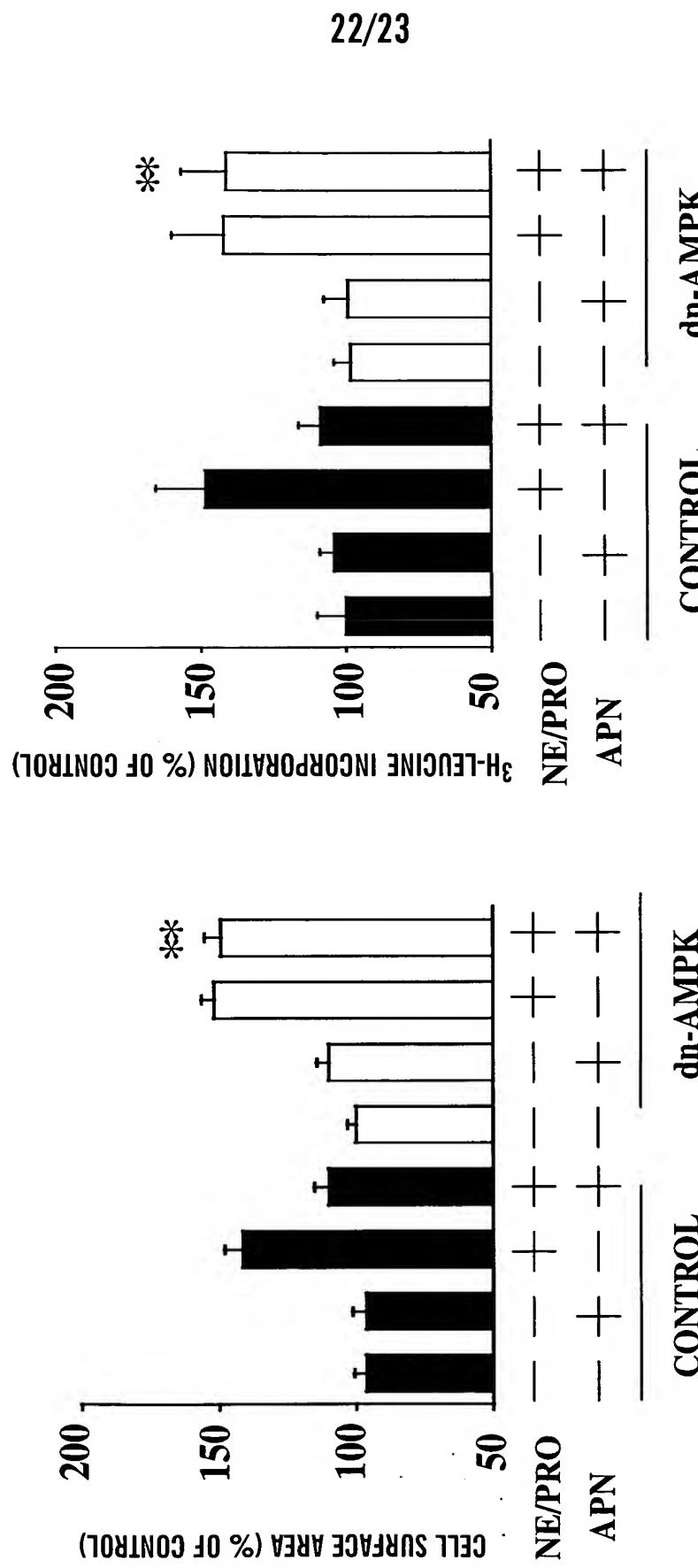
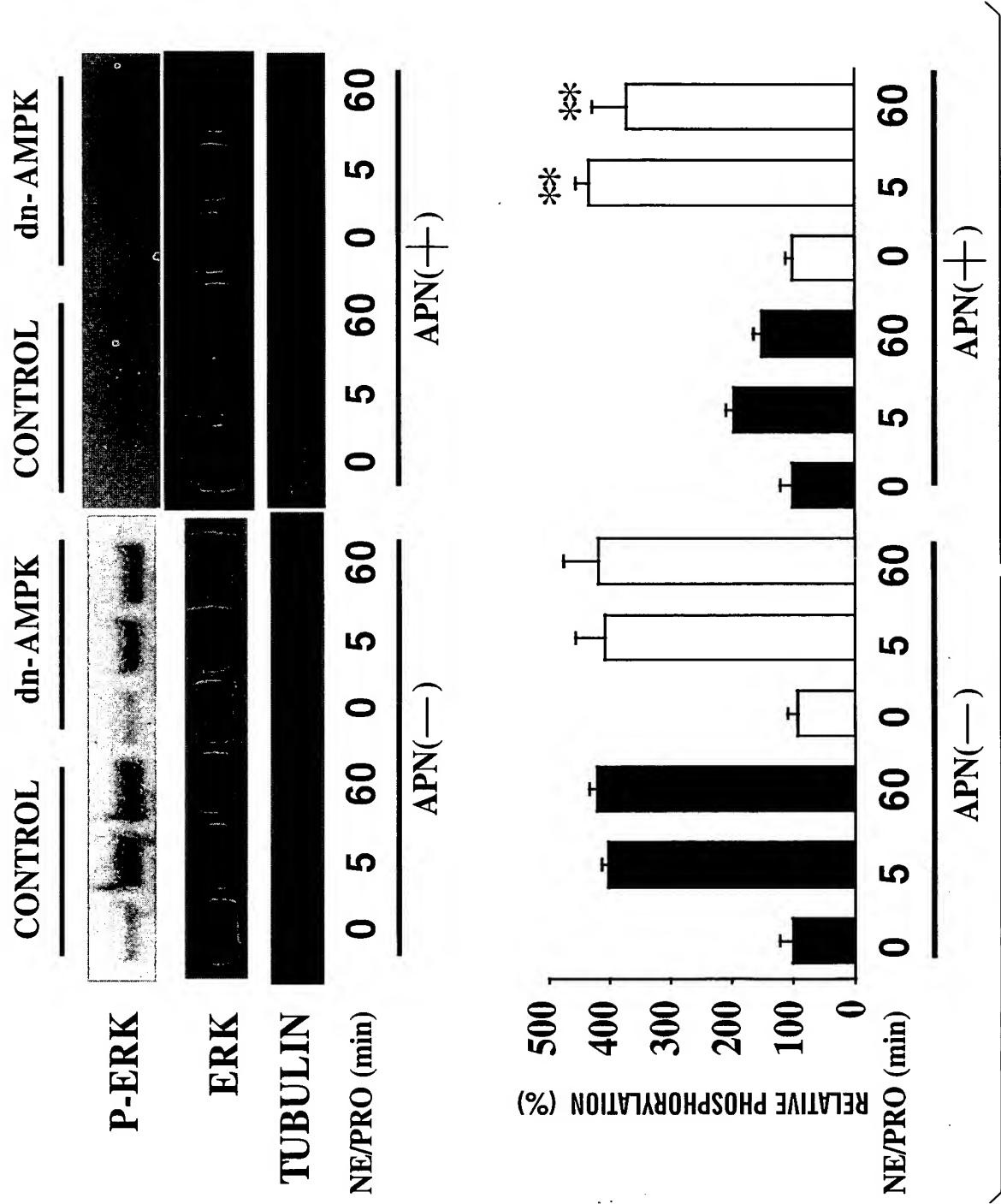


FIG. 10B



**FIG. 10E**



**FIG. 10F**

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